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10/568,580

02/17/2006

Satoshi Nakamae

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OLIFF & BERRIDGE, PLC

P.O. BOX 320850

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EXAMINER

CHEUNG, CHUN HOI

ART UNIT

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3728

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|---|--|
| Office Action Summary | Application No. 10/568,580 | Applicant(s) NAKAMAE, SATOSHI | |
| | Examiner CHUN CHEUNG | Art Unit 3728 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 5-12 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 5-12 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

ETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims 1, 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992) in view of Guinane (2,738,564).

As to claim 1, Saito discloses a substrate storage case with a square shape (Figure 1), comprising a bottom lid (1); a top lid (2) connected through a hinge (3) to the bottom lid (1) so as to open and close the bottom lid (1) and forming an engagement part between the bottom lid and the top lid, wherein lower support parts (16, 162) are disposed in four corners of the bottom lid (Figures 1 and 3), each of the lower support parts being brought in contact with the substrate on the bottom face side thereof, and upper support portions (26 and 262) are disposed in four corners of the top lid (Figures 1 and 3), each of the upper support parts (60) being brought in contact with substrate on a top face

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side thereof. However, Saito does not disclose the bottom support parts being brought in contact with a pair of edge of the substrate on the bottom surface and the upper support part being brought in contact with a pair of edge of the substrate on the upper surface, and does not disclose each of the lower support parts and each of the upper support parts includes a pair of support portions having an L-shape in contact with the pair of edges of the substrate, and each of the pair of support portion in each of the lower support parts and in each of the upper support parts including an oblique face being in contact with a corner edge of the substrate. Nevertheless, Guinane discloses a support part (6) being brought in contact with a pair of edge of the article and further discloses each of the support parts (6) and includes a pair of support portions having an L-shape in contact with the pair of edge of the article and each of the pair of the support portions includes an oblique face in contact with the edge. It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the upper support portion and lower support portion of the substrate container of Saito with L-shape support part with oblique surface as taught by Guinane to self-center the article on four corners and L-shape support further protect the article with the corner portion.

As to claim 5, Saito as modified in claim 1 above, further discloses the lower support parts of the bottom lid and the upper support parts of the top lid are positioned symmetrically with each other and have shapes symmetrical with each other.

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As to claim 12, Saito further discloses each of the lower support parts is formed integrally with the bottom lid; and each of the upper parts is formed integrally with the top lid (Figure 1 and 2).

4. Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992) and Guinane (2,738,564), further in view of Kosugi (4,776,462).

As to claims 6 and 7, Saito as modified in claim 1 further discloses a lock part (13, 24) disposed in a side of the bottom lid to lock the bottom lid and the top lid. However, Saito as modified does not disclose the lock part is disposed lower than a center in the thickness direction of the case and the hinge is positioned on a side of the top lid higher than the center in the thickness direction of the case, and engagement part between the bottom lid and the top lid extends obliquely and downwards from the hinge toward the lock part; and a space is formed under the substrate on a side of the lock part of the bottom lid to insert a finger of an automatic transport arm. Nevertheless, Kosugi '462 discloses a case with opening is lower than a center in the thickness direction of the case (Figure 1B and Figure 1C) and the hinge (2a) is positioned on a side of the top lid (3) higher than the center in the thickness direction of the case (Figures 1B and 1C) and the engagement part (Figure 1B and Figure 1C) between the bottom lid (2) and the top lid (3) extends obliquely and downwards from the hinge toward the lock part and a space (Figure 4B) is formed under the substrate on a side of the lock part of the bottom lid (2) to insert a finger of an automatic transport arm. It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the substrate container of Saito as modified with opening lower than a center in the

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thickness direction of the case and hinge is positioned on a side of the top lid (3) higher than the center in the thickness direction of the case and space if form underneath the substrate as taught by Kosugi for easy access of the substrate and the automatic arm handling mechanism can easily hold or grip the substrate within the container (column 3, lines 61-64).

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992) and Guinane (2,738,564), further in view of Scherb (5,259,523).

As to claim 8, Saito as modified does not disclose the step portion is provided in an outer face of each of four corners in each of the bottom lid and the top lid, the outer face of each of the four corners in each of the bottom lid and the top lid being thinner than a rest of the bottom lid and the top lid. However, Scherb discloses the step portion (Figure 2) is provided in an outer face of each of four corners in each of the bottom lid (30) and the top lid (28), the outer face of each of the four corners in each of the bottom lid and the top lid being thinner than a rest of the bottom lid and the top lid. (Figures 4 and 5). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the substrate container of Saito with step portion as taught by Scherb for the purpose of insert strap for securely close the top and bottom lid.

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992)/Guinane (2,738,564) and Scherb (5,259,523), further in view of Yamauchi (5,353,934).

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As to claim 9, Saito as modified in claim 8 above, does not disclose the clamp member provided between the step portion of the bottom lid and the step portion of the top lid corresponding to the step portion of the bottom lid wherein the clamp member stands the bottom lid and the top lid. However, Yamauchi discloses a clamp member (4) provided between the step portion (8) of the bottom lid (3) and the step portion (8) of the top lid (2) corresponding to the step portion (8) of the bottom lid (3) wherein Yamauchi discloses the claimed invention except for the clamp (4) members clamps and also stands the bottom lid and the top lid. As place the storage box vertically, the clamp member as describe by Yamauchi is capable to act as a stand for the storage box. It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the substrate container of Saito as modified with clamp portion provided between the step portion as taught by Yamauchi to securely clamp the top lid and bottom lid together.

7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992) and Guinane (2,738,564), further in view of Freed (3,615,006).

As to claim 10, Saito as modified does not disclose the concave and convex portions of the bottom lid and the top lid have the round shapes. However, Freed discloses the concave and convex portions (34) of the bottom lid (10) and the top lid (12) have the round shapes (Figure 2). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the substrate container of Saito with the concave and convex portions of the bottom lid and the top lid have the top shape as taught by Freed to prevent dust enter the container.

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8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (JP 2003-222992)/Guinane (2,738,564) and Freed (3,615,006), further in view of Yamauchi (5,353,934).

As to claim 11, Saito as modified in claim 10 above, does not disclose the bottom lid and the top lid is formed of conductive plastic. However, Yamauchi `934 discloses each of the bottom lid (3) and the top lid (2) is formed of conductive plastic (Column 3, line 55-69 to Column 4, line 1-4). It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify the substrate container of Saito with bottom lid and the top lid formed of conductive plastic as taught by Yamauchi to restrain dust generation or accumulation due to vibration.

Response to Arguments

9. Applicant's arguments with respect to claims 1, 5-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUN CHEUNG whose telephone number is (571)270-5702. The examiner can normally be reached on Monday to Friday: 8:30AM~ 6:00AM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mickey Yu can be reached on (571)272-4562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHUN CHEUNG/
Examiner, Art Unit 3728

/Mickey Yu/
Supervisory Patent Examiner, Art
Unit 3728